UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

А	PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
ν.	10/500,811	07/07/2004	George A. Doherty	21020P	8668	
	210 MERCK AND	7590 06/06/2007		EXAM	EXAMINER-	
	MERCK AND CO., INC P O BOX 2000			ANDERSON, REBECCA L		
	RAHWAY, N.	J 07065-0907		ART UNIT	PAPER NUMBER	
				1626		
				MAIL DATE	DELIVERY MODE	
				06/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/500,811	DOHERTY ET AL.				
		Examiner	Art Unit				
		Rebecca L. Anderson	1626				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address				
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 14 M	arch 2007.					
′=	This action is FINAL . 2b)⊠ This action is non-final.						
3)[_]	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims		•				
5)□ 6)⊠ 7)⊠	Claim(s) 1-22,34 and 35 is/are pending in the a 4a) Of the above claim(s) 6,8-10,13-17,22 and a Claim(s) is/are allowed. Claim(s) 35 is/are rejected. Claim(s) 1-5,7,11,12,18-21 and 35 is/are object Claim(s) are subject to restriction and/or	34 is/are withdrawn from consident to to.	eration.				
Applicati	ion Papers						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex-	epted or b) objected to by the drawing(s) be held in abeyance. Se on is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority ι	under 35 U.S.C. § 119						
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receiv (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachmen							
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 4/2/07, 7/7/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

Art Unit: 1626

DETAILED ACTION

Claims 1-22, 34 and 35 are currently pending in the instant application. Claims 1-5, 7, 11, 12, 18-21 and 35 are objected to as containing non-elected subject matter.

Claim 35 is rejected. Claims 6, 8-10, 13-17, 22 and 34 are withdrawn from consideration as being for non-elected subject matter.

Election/Restrictions

Applicant's election with traverse of Group V in the reply filed on 14 March 2007 is acknowledged. The traversal is on the ground(s) that the claims satisfy the unity of invention requirement because the groups are properly linked to form a single general inventive concept. Applicant argues that the special technical feature is the core structure embodied in Formula I and all compounds share this significant common chemical structure which occupies a large portion of their structures and the compounds also possess the same utility as edg receptor agonists. This argument is not persuasive as the compounds claimed only share the common C-N-C which does not occupy a large portion of their structure. Applicant argues that the technical feature defined by the examiner of C-N-C is not the technical feature and that alternatives shall be considered as part of the technical feature if all alternatives are of a similar nature. Applicant argues that a Markush grouping of chemical compounds shall be regarded as being of similar nature when all alternatives have a common property and there is a significant structural element shared by all the alternatives. This is not found persuasive because the term "significant structural element is shared by all of the alternatives" refers to cases where the compounds share a common chemical structure which

Art Unit: 1626

occupies a large portion of their structure or in the case of compounds which have in common only a small portion of their structures, the commonly shared structure constitutes a structurally distinctive portion in view of existing prior art. The compounds claimed only share a C-N-C which does not occupy a large portion of their structure. Since the compounds have only a small portion of their structure in common, this small portion which is commonly shared was shown to not be distinct in view of the existing prior art. Applicant argues that the examiner may not exclude groups such as Ar or A which vary on the compound from the technical feature. This is not found persuasive as can be seen in the PCT international search and preliminary examination guidelines, variables have been left out of the common structure, see for example R1 of examples 19 and 20. Additionally, examples 19 and 20 provide a compound wherein a large portion of the structure is in common, which differs from the instantly claimed invention which has 9 variables, i.e. A, R1, R2, n, R3, R4, Ar, B and C compared to the C-N-C in common with all the claims. The instantly claimed compound has variables Ar-B-C has a large portion of the structure claimed and therefore, the compounds share only a small portion of their structures as the compound claimed also includes variables A, r1, R2, R3 and R4. Therefore, not only are the alternatives of the Markush grouping differently classified, but the technical feature of C-N-C which occupies only a small portion of the structure has been compared to the prior art and found to not be distinct. Therefore the claims are considered to lack unity of invention as the claims are not drawn to categories of invention that are to be considered to have unity of invention as this is without regard to whether the inventions are claimed in separate claims or as

Art Unit: 1626

alternatives within a single claim and the technical feature of C-N-C is not distinct over the prior art.

The requirement is still deemed proper and is therefore made FINAL.

Claim Objections

Claims 1-5, 7, 11, 12, 18-21 and 35 are objected to as containing non-elected subject matter. Claims 1-5, 7, 11, 12, 18-21 and 35 presented drawn solely to the elected invention of Group V would overcome this objection.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

Art Unit: 1626

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 35 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 23 and 24 of copending Application No. 10/501,176 Although the conflicting claims are not identical, they are not patentably distinct from each other because conflicting claims 23 and 24 claim a composition comprising a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating an immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1P1/Edg1 receptor of at least 20 or 100 fold as measured by the ration of EC50 for the S1P1/Edg1 receptor to the EC50 for the S1P3/Edg3 receptor as evaluated in the 35-GTPgS binding assay and wherein said compound possesses an EC50 for binding to the S1P1/Edg1 receptor of 100nM or 10 nM or less as evaluated by the 35-GTPgS binding assay. Page 17 or the specification of 10/501,176 provides a table of exemplary compounds which have this activity and pages 26 and 27 disclose specific compounds, 141-149 which are species

Art Unit: 1626

within applicants' instantly claimed invention which have this activity and are exemplified as preferred embodiments in the 10/501,176 application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Rebecca L. Anderson whose telephone number is (571) 272-0696. Mrs. Anderson can normally be reached Monday through Friday from 6:00am until 2:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Joseph K. McKane, can be reached at (571) 272-0699.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Rebecca Anderson/ Primary Examiner, AU 1626

Rebecca Anderson
Primary Examiner
Art Unit 1626, Group 1620
Technology Center 1600

31 May 2007